

What is claimed is:

An apparatus for substantially matching the impedance of a resonator filter to a desired impedance at a port, said apparatus comprising:

5 a first resonator filter having an input coupled to a signal and further having an output transfer characteristic;

a second resonator having an output characteristic substantially the same as said first resonator;

an isolation resonator coupled between said first resonator and said port;

10 an isolation resistor coupled between said second resonator and said port;

wherein said isolation resonator has an impedance characteristic that is complementary to said first resonator filter.

15 The apparatus of Claim 1 wherein said second resonator is identical to said first resonator filter.

The apparatus of Claim 1 wherein said first resonator is a double-tuned parallel resonator.

20 The apparatus of Claim 1 wherein the second resonator is a truncation of said first resonator filter.

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